**Unit 8: Classification Quiz Review**

Ms. Ottolini, AP Biology, 2012-2013

***Quiz Format:***

* 10 matching vocabulary terms/definitions questions (1 point each)
* 3 short answer questions (2 points each)
* 2 cladogram analysis questions (1 point each)
* 1 cladogram creation question (4 points total

***Vocabulary Questions:*** *You should be able to define the following terms from your classification notes*

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| --- | --- |
| A. Phylogeny | F. Synapomorphy |
| B. Systematics | G. Molecular Clock |
| C. Taxonomy | H. Node |
| D. Binomial Nomenclature | I. Species |
| E. Cladogram | J. Genus |

***Short Answer Questions:*** *Concepts you must know are described below.*

1. You should be able to describe a clade and identify it as a monophyletic, paraphyletic, or polyphyletic group. (You need to be able to explain your choice!)
2. You should be able to explain the benefit of using molecular data (DNA and amino acid sequences) over morphological data in determining evolutionary relationships
3. You should be able to list Linnaeus’s levels of classification in order from most general to most specific (or vice versa) – Remember… King Philip Came Over For Good Soup!

***Cladogram Analysis Questions:*** *You should be able to use a cladogram to answer basic questions regarding which groups of organisms possess certain traits shown on the cladogram (See the last page of your notes for an example).*

***Cladogram Creation Question:*** *You should be able to create a cladogram given a chart showing the presence or absence of certain shared, derived traits (synapomorphies) in several groups of organisms. (See the last page of your notes for an example)*